DDXI V1.00 DIGITAL DVI/VGA-KVM-EXTENDER
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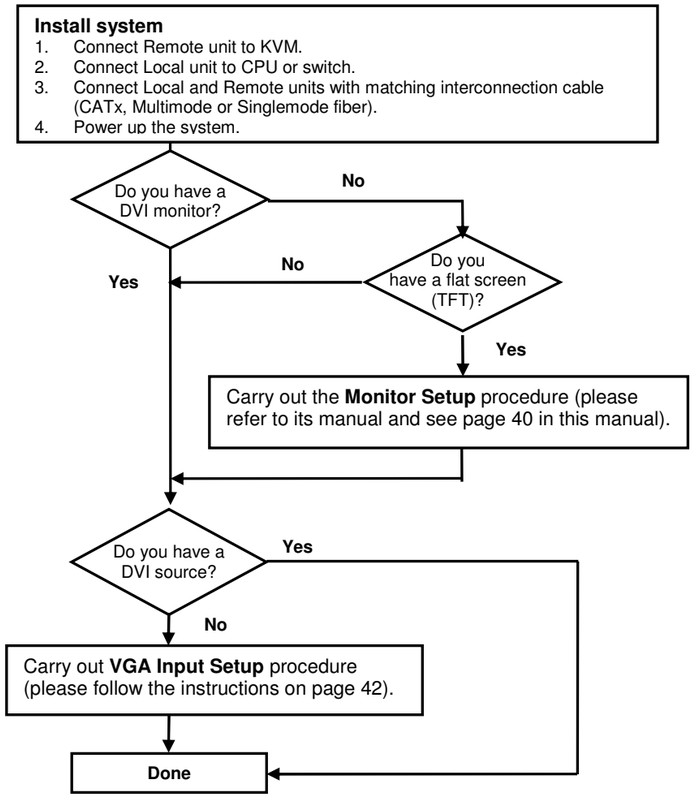
1 Quick Setup

This section briefly describes how to install your KVM extender system and optimize the video signals. Unless you are an experienced user, we recommend that you follow the full procedures described in the rest of this manual. Refer to the command summary when following this procedure.



2 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the KVM extender system more conveniently.

2.1 Package Contents

You should receive the following items in your extender package (all types) If anything is missing, please contact Technical Support:

- Extender Local/Remote unit.
- 2x 6V DC 12W universal power supply for Local/Remote unit.
- 2x DVI-I to VGA adapter (DVI-I dual link male to HD15 female) connector.
- 1x VGA to DVI-I adapter (HD15 male to DVI-I dual link female) connector.
- Programming cable (DB9 female to RJ11 4p4c).
- User manual (Quick Setup).
- 2x German-type power cord.

All PS/2 models are supplied with:

- KVM CPU cable set (1.8m) with PS/2 (6-pin mini-DIN male-to-male) keyboard and mouse connector and DVI-I video (DVI-I dual link male-to-male) connector

All USB types are supplied with:

- DVI-I video cable (DVI-I dual link male-to-male)
- USB cable (USB type A to type B)
- 5V DC 12W universal power supply for Remote unit (only required when connecting two or more High Power USB
- US-type power cord (additional)

2.2 System Setup

To install your DDXI - DVI KVM Extender system:

1. Switch off all devices.
2. Connect your keyboard, monitor(s) and mouse to the Remote unit as shown below (K439-1W), (K437-1W/K438-1W) or (K442-3U/K443-3U).

These ports may also be attached to the CPU side of a KVM switch in order to have a Remote CPU. However, if you are attempting to use the extender between cascaded KVM switches this may not work. Please contact Technical Support to discuss your application.

3. Connect the interconnect cable to the INTERCONNECT socket(s) as shown below (K439-1W), (K437-1W/K438-1W) or (K442-3U/K443-3U).
4. Connect the 6V power supply to power the unit.

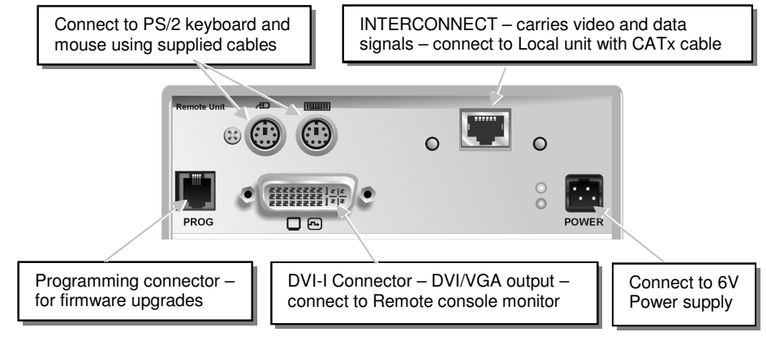
Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.

5. Using the supplied CPU KVM cable(s), connect the keyboard, monitor(s) and mouse connectors on the computer (or KVM switch) to the corresponding connectors on the Local unit as shown below (K439-1W), (K437-1W/K438-1W) or (K442-3U/K443-3U).
Ensure that you attach the keyboard and mouse connectors to the correct ports. The keyboard connector is purple; the mouse connector is green.

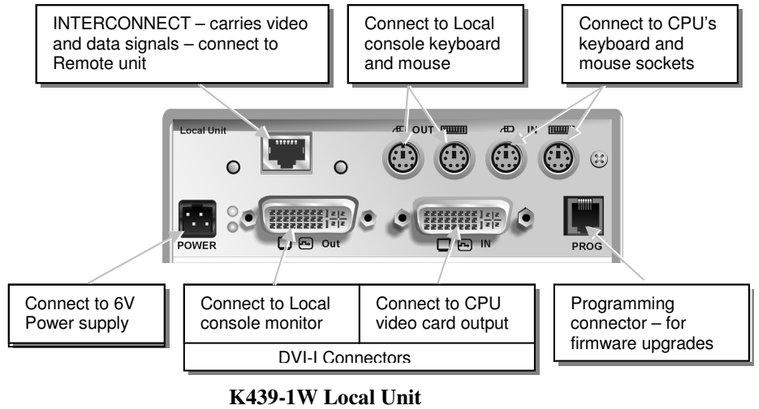
If your PC does not have a PS/2 mouse port, an active serial converter will be required

6. For a dual access system, connect the keyboard, mouse and monitor for the Local console to the appropriate ports on the Local unit. The ports may also be used to feed into a KVM switch.
7. Connect the Interconnection cable from the Remote unit to the INTERCONNECT socket on the Local unit as shown below (K439-1W), (K437-1W/K438-1W) or (K442-3U/K443-3U).
8. Power up the system.

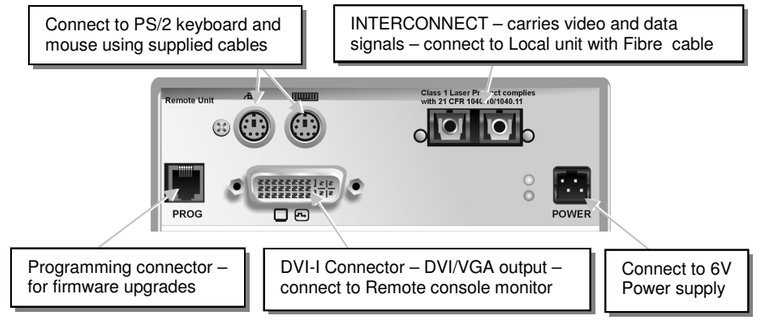
3 Device View (depending on device type)



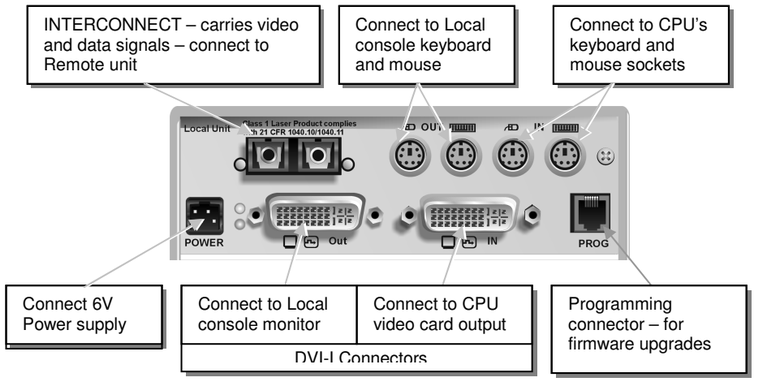
K439-1W Remote Unit



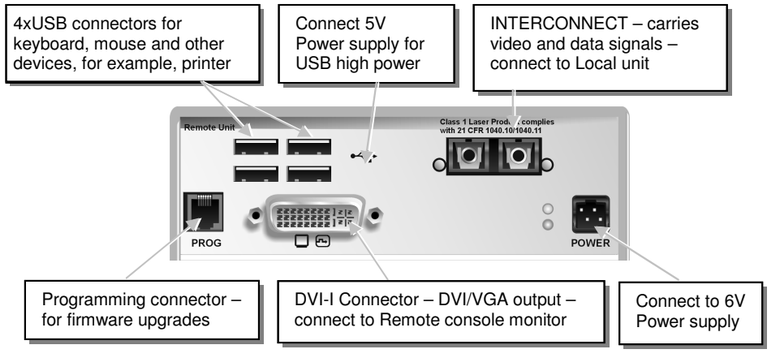
K439-1W Local Unit



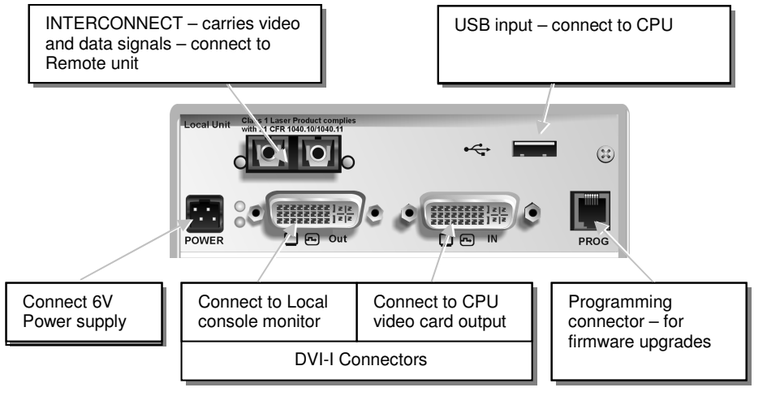
K437/K438-1W Remote Unit



K437/K438-1W Local Unit



K439-1W Remote Unit



K442-3U/K443-3U Local Unit

manual : http://www.ihse.de/pdf/b437-1w_e.pdf
manual : http://www.ihse.de/pdf/b437-1w_e.pdf

3.1 Diagnostic LEDs

Each Extender unit is fitted with four indicator LEDs: *Communication Error*, *Link Status*, *Device Ready* and *Video Signal*. The Indicator LEDs are located in the same positions on all models in the DDXI - DVI KVM Extender range. The *Communication Error* and *Link Status* LEDs are to the left and right, respectively, of the Interconnect sockets. The *Device Ready* and *Video Signal* LEDs are next to the Power socket.

As an example, the location of the LEDs is shown below for K439-1W Remote and Local units:

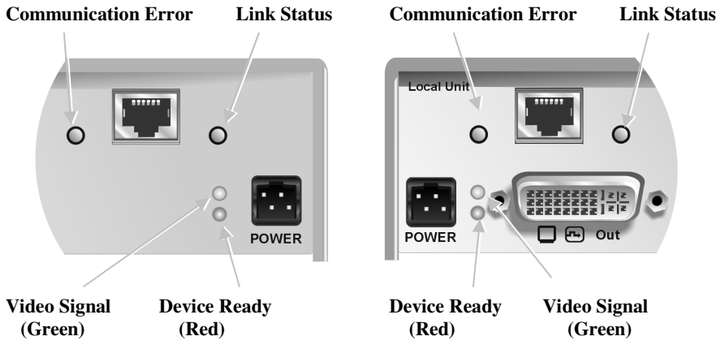


Figure 1 Diagnostic LEDs on Remote (left) and Local (right) units

LED	*Appearance*	*Diagnostics*
Communication Error	Off	No communication error for >60 minutes
	Flashing	Indicates number of communication errors during previous 60 minutes:
	slow	10-100 (CATx) 1-2 (Fiber)
	medium	100-1000 (CATx) 3-10 (Fiber)
	fast	>1000 (CATx) >10 (Fiber)
		Error counter cleared automatically 60 minutes after previous communication error.
Link Status	On	Link connection is locked
	Flashing	Interconnection cable not connected or not functioning
Device Ready (Red LED)	Off	Device not ready
	On	Device ready
Video Signal (Green LED)	Off	No video signal or valid mode detected
	On	Attached and valid mode detected

4 Device Control

If you are using the DVI output from your video card and the DVI input to a TFT monitor, no adjustment should be required. In other cases, when the video signal is converted between analog and digital formats, either by the Local unit and/or the monitor, you may need to optimize the video signal using the Extender's on-screen display (OSD).

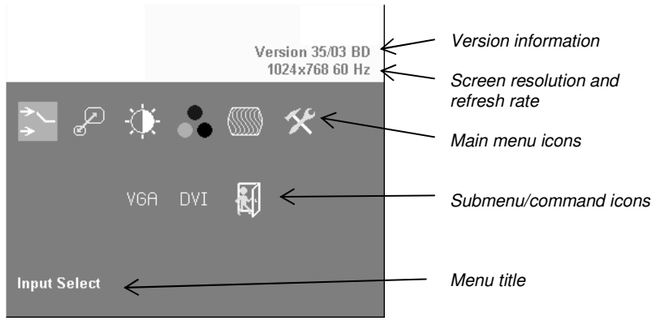


Figure 2 OSD Utility

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You can adjust the following properties using the OSD:

- Adaptation to analog signal sources (VGA/RGB) – see also manual, page **Fehler! Textmarke nicht definiert.**.
- Color temperature
- Brightness/contrast
- Saturation
- OSD operation, factory reset.

4.1 Opening the OSD

You can access the OSD in two ways:

- Using the keyboard attached to the Remote Unit:
- Using our small WINDOWS™ program with a serial connection to the programming port of the **LOCAL UNIT**.

While the OSD is active, the mouse is locked and only menu keystrokes are allowed at the keyboard. To indicate that the OSD mode is active, the status LEDs (Num Lock, Caps Lock and Scroll Lock) are flashed. There is a summary of OSD commands.

4.1.1 Using the keyboard attached to the Remote Unit

Type the following key sequence at the Remote console keyboard:

<Ctrl> + <Shift> + < I >

Note. On some keyboards, **<Ctrl>** is replaced by **<Strg>**.

To navigate within the OSD:

- Use the left and right arrow keys to highlight a submenu and/or function.
- Press the <ENTER> key to select the highlighted submenu or function.
- Select the Exit icon to go back to the previous menu level.
- Press the <ESC> key to exit the OSD mode.

4.1.2 Using our WINDOWS™ program attached to the Local Unit

On all devices, you can use our small WINDOWS™ program, running on a WINDOWS™ computer for OSD access:

- Download the program from our server

- Connect the programming cable to the programming port of the Local unit.
- Connect the programming cable to the serial port of your computer, where the program is running.
- Start the program and follow the on-screen instructions.
- Type in the following key: **<ENTER>**

When the OSD starts, it displays information about the attached device and firmware version, for example:

```
Modul Name    : DVI-KVM-12lo
Version       : Vers.1.3
Date          : 03/05/15
```

To navigate within the OSD:

- Use the <L> and <R> keys to highlight a submenu and/or function.
- Press the <S> key to select the highlighted submenu or function.
- Select the Exit button to go back to the previous menu level.

Press the <X> key to exit the OSD mode.

manual : http://www.ihse.de/pdf/b437-1w_e.pdf

DDXi V1.00 DVI/VGA-KVM-Extender

Type : K437-1W K438-1W K439-1W K442-3U K443-3U

(Quick Setup)

manual : http://www.ihse.de/pdf/b437-1w_e.pdf